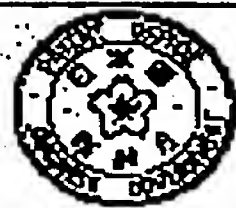




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PATENT ABSTRACTS OF JAPAN

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ARAI FUMITO
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(54) CATHETER IN BLOOD VESSEL

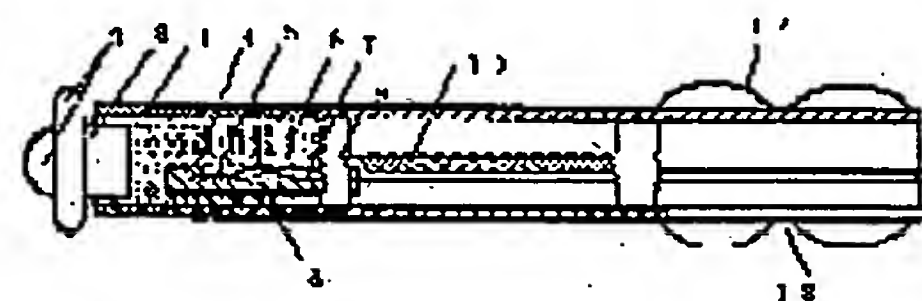
(57) Abstract:

PROBLEM TO BE SOLVED: To improve safety of operation of a catheter insertion work by providing a detection part having one or a plurality of projections at its end and providing a pressure sensor, which measures the pressure of a contact part by contacting a projection with environmental substance on the catheter tip.

SOLUTION: When a projection 2 in the adjacent to the end of the detection part is brought in contact with environmental substance, a detection part 3 is pushed so that a pressure sensor 1 reads changes in pressure applied on a pressure transmission medium 6. The pressure sensor 1 is mounted on the tip of the catheter

and at the same time an actuator 11 oscillating the adjacent of the catheter tip is installed. The root of the actuator 11 is fixed in the tube by swelling one or lot of balloons 12 which are provided in the adjacent to the root of the actuator 11 so that the actuator is oscillated. The advancing direction of the catheter tip is selected by scraping off the environmental substance by recessed/projecting face of the catheter 1 and actively controlling the actuator 11.

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The Delphion Integrated ViewGet Now: ☒ PDF | [More choices...](#)Tools: Add to Work File: [Create new Work File](#)View: [INPADOC](#) | Jump to: [Top](#) ☐ Go to: [Derwent](#)☒ [Email this](#)Title: **JP09192230A2: CATHETER IN BLOOD VESSEL**Derwent Title: Catheter for blood vessel - has force sensor to measure force of contact part when protrusion at end vicinity of detection part contacts surroundings
[\[Derwent Record\]](#)

Country: JP Japan

Kind: A

Inventor: FUKUDA TOSHIO;
ARAI FUMITO;Assignee: FUKUDA TOSHIO
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Application Number: JP1996000029891

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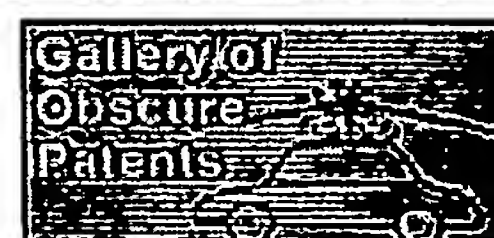
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SOLUTION: When a projection 2 in the adjacent to the end of the detection part is brought in contact with environmental substance, a detection part 3 is pushed so that a pressure sensor 1 reads changes in pressure applied on a pressure transmission medium 6. The pressure sensor 1 is mounted on the tip of the catheter and at the same time an actuator 11 oscillating the adjacent of the catheter tip is installed. The root of the actuator 11 is fixed in the tube by swelling one or a lot of balloons 12 which are provided in the adjacent to the root of the actuator 11 so that the actuator 11 is oscillated. The advancing direction of the catheter tip is selected by scraping off the environmental substance by recessed/projecting face of the catheter tip, and actively controlling the actuator 11.

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Family: None

Other Abstract Info: None

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